

FINANCES TO BE RESTRICTED ON WALKER AFFAIRS

Rules Announced At Institute Committee Meeting Will Prevent Deficits

MORE FRESHMAN TIES SOLD THAN LAST YEAR

Rules Will Be More Strictly Enforced This Year And Checks Will Be Made

Because of the "abnormal" number of deficits incurred last year in various undergraduate functions, the Walker Memorial Committee has placed restrictions upon affairs held in Walker Memorial. This was announced at the meeting of the Institute Committee yesterday by Wesley H. Loomis, III, '35, chairman of the Walker Memorial Committee.

The rules were designed to prevent losses such as occurred at some of the dances last year. Loomis disclosed that the Sophomore dance committee had a deficit last year of about \$200, the freshman dance committee of about \$100, and the Beaver Key Society of \$92.

Following are the new rules: "Any class or undergraduate organization desiring to hold a social function in Walker Memorial must (1) Obtain permission from the Walker Memorial Committee; (2) Submit a budget for the approval of the committee at least two weeks before the date of the proposed function; (3) Show at that time that said organization has sufficient funds or financial backing to hold such a function; (4) Meet with the Walker Memorial Committee one week preceding said function and have all plans approved by the committee."

441 Neckties Sold
Hal L. Bemis, '35, Chairman of the freshman rules committee, reported to the Institute Committee that 441 freshman ties were sold on Registration Day. This number did not include all the freshmen, he stated, but was higher than the number sold last year. Bemis said that his committee would make an effort to see that the rules are more strictly enforced this year than last, and to that end a systematic check-up would start Monday.

The Tech Offers Co-eds Membership On Its Staff

Opportunity for Technology co-eds to advance themselves intellectually and socially is offered by THE TECH as freshman candidates. In the past, a large per cent of the co-educational students have been members of THE TECH staff, and all have been highly successful in Institute affairs. Every consideration is given to members of the "fairer" sex who aspire to journalistic pursuits. In many cases, transportation to and from the office has been furnished free of charge. Feminine candidates will find a great number of staff members willing to give them a hand in "learning the trade". In a remarkably short time, the co-eds will find themselves at home in an activity "jes" like one big happy family. However, the more numerous, if less "fair" portion of male students is also invited to come out for THE TECH.

FRESHMEN TAKE APTITUDE TESTS

Discovery of What Type of Man Best Suited For Technical Training Is Goal

As part of a widespread effort to discover what men are best suited for engineering training, a problem of immense importance to technological institutions, a series of tests for freshmen is being inaugurated at the Institute in co-operation with the Society for the Promotion of Engineering Education.

The mathematics test will be given tomorrow from 11 to 12:45, and the English test will occur at the same hour on Saturday, October 6. For the mathematics test the following room assignments have been made:

Section	Room
1-4	3-410
5-12	3-440
13-18	3-460

It is requested that pencils and erasers be brought for the tests.

To clear the way for these tests, sections in M11, which regularly meet at 11 A. M., have been changed to 9 A. M. on Saturday, September 29 and Saturday, October 6 only. On those days sections in M11 will meet in the following rooms: Section 10: Room

(Continued on Page 2)

NEW MEN MEET "THE TECH" STAFF AT ANNUAL EVENT

Free Refreshments and Smokes To Be Distributed Among Freshmen Present

PROF. FASSETT TO SPEAK

Freshmen will have an opportunity to confer with members of THE TECH staff this evening at a smoker to be held in the faculty dining room at 5 o'clock.

Those men interested in writing for the Institute's oldest, and from the point of view of number of issues and circulation, the most active of the students' publications, will find the solution to any problem, concerning the paper, at this time.

Speakers for the occasion will be Mr. J. Rhyne Killian, '28, editor of the *Technology Review*, Prof. Edwin S. Burdell, '20, former editor of THE TECH, and Prof. Frederick G. Fassett, Jr., of the English Department. Several members of the staff will also explain the work of the business and news departments of the publication.

Refreshments and smokes will be served at the time free to those who are interested in the paper. The Faculty room is on the second floor of the Walker building, in the rear. It may be reached from the west balcony of the Main Hall.

The purpose of the smoker this evening is to acquaint the new men with the type of work done by THE TECH staff. It may also be considered a means of showing men whether or not they are suitable for that type of work. Freshmen are at this time informed that they will not be obligated by their attendance at the smoker.

ENROLLMENT FIGURES SHOW MORE FRESHMEN

Preliminary Figures Give Ten Per Cent Increase

With registration nearly completed, the freshmen class which entered the Institute this week showed an increase of more than 10 per cent over last year's enrollment. The total up to yesterday, with late registrations still to be added, was 549, an increase of 52 students. Registration in the graduate school was 477, an increase of 15 over last year.

The Institute's total enrollment Wednesday was 2476, a decrease of only 103 from the total of 1933-34 on the same date. Because of the effects of decreased enrollment during the early period of the economic disturbance, registration in the second, third and fourth year classes was 170 below last year's figures.

MUSICAL CLUB'S MASS MEETING NEXT TUESDAY

Activities Will Be Explained; New Men Welcomed

The M. I. T. Combined Musical Clubs will officially open their fifty-first season with a mass meeting of all the departments of the Clubs on Tuesday, October first, in Room 10-250 at five o'clock.

General Manager H. William Parker, '35 will preside over the meeting and will introduce the coaches, leaders, and managers of the Clubs. The leaders will be called upon to explain the activities of their respective clubs and to give the plans for the coming year. Arrangements will also be made for try-outs by the coaches of the respective clubs.

George A. Hoeny, will coach the Banjo Club and the Orchestra, while William E. Weston will direct the Glee Club.

Prof. Robert Rogers Addresses Freshmen



FRESHMEN ATTEND TECHNIQUE SMOKER

Prof. Fassett and Mr. Killian Tell New Men Of Work On Year Book

Opportunities which are offered to undergraduates by *Technique*, Technology's year book, were outlined in two short speeches given at a smoker in Walker Memorial yesterday. The speakers were Professor Frederick G. Fassett, Jr., of the English department, and Mr. James R. Killian, Jr., chairman of the Advisory Council on Publications.

Bernard H. Nelson, '35, general manager of *Technique*, opened the meeting with a few words of greeting to both the incoming candidates and members of the staff. He then introduced Professor Fassett, who spoke of the experience the undergraduate is afforded by the year book which will be useful to him after he has left the Institute. Mr. Killian then spoke of the pleasure derived from working on a school year book and the excellent opportunity it gives for studying human nature.

Nelson again addressed the gathering, outlining the organization of the publication, and discussing the functions of the various departments.

FORMAL WELCOME GIVEN FRESHMEN AT TECH SMOKER

President K. T. Compton Pleas For Continuance Of Tradition

WORCHESTER TELLS OF INSTITUTE ATHLETICS

Evening Climaxed by Songs And Cheers Accompanied By "Obie" Denison

Speaking to over 500 freshmen and their fathers assembled at the annual All-Tech smoker and reception, President Karl Taylor Compton extended a formal welcome to the incoming students and spoke briefly on Technology's traditions of "high standard of work," general friendliness and co-operation throughout the Institute and regard of the students and alumni for the Institute.

After a preliminary supper, Dr. Compton was introduced by Professor Robert E. Rogers, master of ceremonies. Henry E. Worcester, '97, spoke about the great opportunities presented in athletics here, both in actual participation and in the managerial positions. He also explained the system of student management under alumni supervision.

Professor Rogers spoke of the large mural which can be seen as one enters Walker Dining Hall as the picture of the Technology co-ed track team which defeated Harvard, Yale and Princeton in straight heats. Bloomers were not allowed at the time.

The mural on the North-west wall was referred as a picture of the Tech freshman coming from the Harvard Co-operative Society followed by Faith, Hope and Charity—all he has left.

Edward Moorland, Vice-President of the Alumni Association presented the key to Walker Memorial to Walter H. Stockmayer, '35, President of the Senior Class. The George Swartz Medal for the best manager of the year was presented to Richard Lawrence, '35, by William W. Cross, president of the M. I. T. A. A.

The *Technique* Cup, emblematic of the outstanding trackman, was presented to Stanley Johnson, '36, by Bernard H. Nelson, General Manager of *Technique*. After the presentations, there was singing and several athletic exhibitions.

Executives and Faculty Members Say Publications Valuable as Activities

Publications Offer Excellent Opportunities to Increase Writing Ability, Develop Poise and Self Assurance, and Make Helpful Contacts, State Officials

To acquaint new students at the Institute with the official attitude of the school toward work on undergraduate publications, THE TECH presents the following statements by President Compton, Vice-President Bush, Treasurer Ford, and members of the Faculty.

Carl T. Compton, President

It was my own experience that real interest in literary style, and ability to make clear and interesting exposition of a subject, became matters of real concern to me only when it became necessary for me to write for publication. There is a feeling of personal responsibility and a stimulation which are largely absent from the academic exercises in composition which form so large a part of the

general training in the art of expression. Furthermore, a greater number of our alumni have expressed to me their conviction that a better training in the art of written and oral expression is one of the most urgent requirements of our educational program. For these reasons I feel certain that any student who has the opportunity to participate in the work of the student publications will feel well repaid for his effort on professional grounds as well as through enjoyment of the work.

Vannevar Bush, Vice-President

There has never been a more interesting period in history than the present time, with its kaleidoscopic changes in modes of living, economic relationships, and political philosophies. The Fourth Estate has a grandstand seat at the performance. Interest in the world at large is an important habit for any professional man to develop; and participation in many aspects of the work of undergraduate publication is a valuable step in this direction.

(Continued on Page 3)

Prominent Institute Chemists Die Early This Summer After Illness and Accident

Professor Joseph W. Phelan Succumbs on June 24 after Illness; Dr. William Walker Is Victim of Auto Accident.

Two prominent chemists affiliated with the Institute died early this summer. Professor Joseph W. Phelan, head of the freshman chemistry department passed away on June 24, after a short illness, while Dr. William H. Walker, former member of the M. I. T. faculty and organizer of the Chemical Engineering Course was the victim of an automobile accident.

Professor Phelan was, with the exception of one year, a member of the chemistry department staff at the Institute since his graduation in 1894. For a short time he served as sugar chemist in Porto Rico.

During his years at the Institute, Professor Phelan carried on extensive research in connection with the tanning industry and in particular with the dyeing and curing of leather. In collaboration with Professor Arthur

A. Blanchard he wrote a book on "Synthetic Inorganic Chemistry" now used as text in first year chemistry.

Dr. Walker also commenced his teaching at the Institute after obtaining his doctorate in chemistry in Germany. Sensing the growing need of industry for chemistry, he joined in partnership with Dr. Arthur D. Little in this application. He returned to M. I. T. in 1902 and organized the industrial chemistry course which has become the present Chemical Engineering Course. He also organized the Research Laboratory of Applied Chemistry for the solution of industrial problems.

In 1916 while head of his department he established, with the aid of Dr. A. D. Little, the Chemical Engineering Practice School. Working in the Chemical Warfare Service during the war, Walker completed the Edgewood Arsenal for the manufacture of toxic gases, for which he received the Distinguished Service Medal.

Dr. Walker, at the time of his death, was consulting engineer for a chemical company besides being a non-resident member of the faculty and a member of the advisory board.



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MASSACHUSETTS INSTITUTE OF TECHNOLOGY

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NO SOAP BOX

CONVERSION BY PERSUASION

THE rise of Sinclair in California ought to teach radical agitators a few things. The big one is that they can more easily accomplish their ends by the application of common sense and political skill than by their violent gestures on street corners.

With Sinclair's election practically conceded, even his worst enemies are admitting that he is a man of rare political genius. He has such popular appeal that he can make people pay twenty-five cents apiece for the privilege of attending his rallies. He has many of his staunchest supporters among the moneyed people of the state. He even has sceptics worried that his EPIC plan will succeed. And if it does, he will not stop at California.

His bolting the Socialist party at the exact psychological moment, his ability to make capital of even the reactionary mistakes in the handling of the dock strike, his persuasive manner, his choice of the catchword "EPIC", and his ably written propaganda all proclaim his political shrewdness. It is by this alone that he has gained the road to success. And it is only by similar methods that the other reformers in this country can gain their ends.

The American citizen refuses to be bulldozed by loud talk. But he can be converted by persuasion if it be used with skill. The street-corner agitator who says it can't be done is wrong. He simply means that he hasn't the ability to do it.

MORE SMOKERS

MAKING GOOD ALUMNI

THE surprising success which attended the freshman smoker brought to mind thoughts which had occurred at previous smokers, namely, that this was probably the last time the present freshman class would ever meet together until Class Day, June 1938.

One of Technology's leading self-criticisms has been that the alumni and undergraduate bodies fail to show loyalty to alma mater that seem to be prevalent in other schools. To be sure there are notable exceptions such as "Obie" Denison who wound up Monday's smoker with his songs, but in the main, students and alumni know at a maximum two cheers and the "Stein Song".

Many solutions to the problem have been offered including using the Main Hall in Walker for its original purpose, a lounge for students.

One more solution might conceivably do little but add to the confusion, but at any rate we are offering one that has never before been brought to our notice.

Why not a smoker for every class at Technology? Certainly they would provide the proper atmosphere for incubating the alma

mater spirit. Undergraduates would learn Technology's cheers and songs and by graduation would have acquired a feeling of loyalty which would at least compare with that of our outstanding alumni.

INSPIRATION FROM ABERDEEN

JEANS' PRESIDENTIAL ADDRESS

IT is puzzling enough for the layman interested in the world of science to keep pace with the rapid developments in such fields as physics, chemistry, or biology. Cloaked in the necessarily esoteric mathematical jargon of the scientists, the most startling additions to man's knowledge of things in general must remain meaningless or obscure to the uninitiated. Most gratifying, therefore, was the presidential address of Sir James Jeans, entitled "The New World-Picture of Modern Physics," and delivered before the British Association at its convention early this month in Aberdeen. In it he attempted to interpret for the layman the latest concepts of modern physics and discuss their philosophical implications, at least as they appeared to him.

Some of his utterances seem surprising indeed, considering the source. Although such eighteenth century philosophers as Hume and Berkeley declared that nothing really exists outside of our own minds, we would scarcely expect to hear the same doctrine expounded by an objective, materialistic scientist of today. Yet how else can we interpret the portion of Jeans' address where he speaks of "the new physics, with its general thesis that the Nature we study does not consist so much of something we perceive as of our perceptions?" This conception, he points out, arises from the new wave-picture of the electron which assumes that electron-waves spread uniformly throughout all space, but exist for us only in our minds. It is all somewhat confusing despite Sir James' remarkable clarity of expression.

He broaches also the old, old question of free will and determinism, and again derives his solution from the new kind of electrons. The new physics, he says, gives us more hope that we possess freedom of choice and that we do not have our fates inscribed somewhere in advance as the classical physics indicated. "We have an intuitive belief, he says, that we can choose our lunch from the menu or abstain from house-breaking or murder. . . The old physics seemed to tell us we were wrong and that our imagined freedom was all an illusion; the new physics tells us it may not be." More fantastic and conjectural was his suggestion further on that "when we pass beyond space and time we may perhaps form ingredients of a continuous stream of life."

The section of his address, however, most appreciated by the layman is his conclusion where he discusses the relation of scientific progress and civilization. He rejects the proposal of those who "attribute most of our present national woes — including unemployment in industry and the danger of war—to the recent rapid advance of scientific knowledge." He declares that the avenue of escape from our difficulties is not less science but more science, especially psychology, eugenics and birth control, and research in agriculture and industry, especially that research which, by giving rise to new industries, give rise to unemployment. He will find few to disagree here.

In the complexity of the modern world it is sometimes beneficial to sit back and find out from those few who have some inkling, where we stand. This year, Sir James has tried to tell us his idea of it and has done so in a lucid, almost entertaining fashion. For this we are grateful.

EDITOR'S NOTE: It is the policy of this paper, as in the past, to welcome all signed communications to the Editor. So long as such letters are sincere, truthful, and accurate, they will be printed in the Open Forum Column whether or not they are in agreement with the policies of THE TECH.

However, since newspaper readers have sometimes queer notions as to what constitutes a fair, truthful, and accurate statement, the right is reserved to edit or entirely repress any missive to the editor.

T. E. N. SMOKER NEXT
TUESDAY IN WALKER

The Tech Engineering News will have its smoker to welcome freshmen, in West Lounge, Walker, on next Tuesday at five. Professor Fassett of the English Department will give a short talk on magazine making. Men on the managing board of the magazine will describe the opportunities open to freshmen in the business and editorial departments.

Winner of the Yale Cup, last year, the T. E. N. is one of the leading magazines in its field. Freshmen interested in magazine editing or in business activities in advertising, book-keeping, or executive fields should investigate the claims of the T. E. N. at the smoker.

5:15 CLUB WILL HOLD
SMOKER FOR NEW MEN

To acquaint new men with the 5:15 Club and its activities, the Club will hold a smoker on Friday, October 28, at 5:15 P. M. in the 5:15 Club Room in the basement of Walker Memorial.

Professor Robert E. Rogers of the English Department and Gerald M. Golden, '35, President of the Club will speak. Refreshments will be provided in the form of cider, doughnuts, and smokes.

FRESHMEN WILL TAKE
NOVEL APTITUDE TESTS

(Continued from Page 1)

2-270; Section 11: Room 2-274; Section 12: Room 2-278; Section 13: Room 2-147.

The data gleaned from these tests is expected to yield valuable information regarding the abilities and interests of students entering engineering work. Sponsored by the Engineers' Council for Professional Development, a body representing the technical, educational, and legislative phases of the problem of seeking the improved status of the engineer, this experiment will determine whether it is possible to predict the success of these students in an engineering school.

CORRECTION

Word from the Dean's Office reveals the fact that a recomputation of the fraternity standings shows Phi Delta Theta averaged 3.39 instead of 3.30 as The Tech was previously informed. This change places the chapter 5th among the 25 fraternities instead of 9th.

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SPORTS COMMENT

In this our first column of the current school year, may we inform new readers of THE TECH that this feature of the sports department of the publication, as the caption suggests, consists of informal bits of comment, criticisms and stories connected with sports at Technology. May we also add that we are always glad to receive any material which could be included in this column.

* * * * *

Everyone who ever had to use the cramped quarters of the old wooden "track house" in former years undoubtedly welcomes the most recent addition to the Institute buildings, the new field house. Perhaps the first feature which attracts one's attention as he observes the edifice for the first time is the almost complete absence of windows from the walls. Nearly all the daylight which enters the building comes through the roof skylights. However if anyone has any doubts as to inadequacy of light inside, one look into the interior will at once dispel such thoughts. The new field house is so much better lighted and its facilities are so much more modern and sanitary that it certainly is the biggest improvement to appear on the Institute grounds in recent years.

* * * * *

All freshmen who would like to substitute some sport for the regular Physical Training course should begin looking over the possibilities offered. Already posters have made their appearances on the various bulletin boards of the school, telling of some of the sports which can be substituted. If you feel a bit hesitant about signing up for any sport just drop around to see the coach of that branch of athletics at the Institute and he will be glad to talk it over with you. If you still are doubtful pay a visit to where the men engaged in that sport are practicing, if the sport is in season, and ask any of them about it. These men, too, will answer your questions relevant to athletics at Tech and will probably tell you of the enjoyment they get from their favorite sport or sports. And don't forget that you receive your 1938 numerals if you make one of the freshman teams.

FACULTY MEMBERS CALL PUBLICATIONS VALUABLE

(Continued from Page 1)

Horace S. Ford, Treasurer

No student at the Institute should fail to participate in some one of the extra-curricular activities with the opportunities offered for contact with other men and other minds. Perhaps you do not care for athletics and never have acquired a cramp on the track or crew. Better try a writer's cramp on some of the publications. It will be evidence of effort, anyway.

Samuel C. Prescott, Dean of Science

The value to the student in being "on" a publication at the Institute is directly proportional to the enthusiasm and real interest with which he engages in this extra-curricular activity. If undertaken in the right spirit, work either on THE TECH or the Tech Engineering News should broaden his outlook, develop his power to make worthwhile contacts, and stimulate his desire to learn how to express his thoughts in clear, terse and logical language. The special service rendered by the Department of English to men on the publications is of great value. The training in attention to details and in general business methods is also highly advantageous.

Professor Henry G. Pearson

Among outstanding Tech graduates, the number of men who received training by working on one of the

undergraduate publications is large. Such training develops ability to do team work, fosters enthusiasm for a cause and loyalty to it, and is a proving-ground for a man's qualities of leadership. It is no wonder that so many of these men make good in later life.

Professor J. Alexander Magoun

Working on college publications pays a two-fold dividend: in college it gives one opportunity to work with classmates in a truly creative way; after college it gives one a better start in knowing how to get into print. Every company likes to have its technical staff publish a professional paper now and then—it is good advertising for the company and an aid to promotion for the individual.

Delbert L. Rhind, Bursar

Affiliation with any undergraduate publication will prove to be of inestimable value to the student in his future contacts upon graduation.

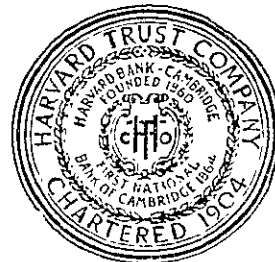
J. R. Killian, Jr., '26

No other group of activities (athletics excepted) at Technology attracts so many students as our publications. This fact demonstrates two things: first, that our publications play a vital part in our community

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CALENDAR

Friday, September 28

5:00—THE TECH Smoker, Faculty Dining Room, Walker Memorial.

Saturday, September 29

11:00—Aptitude Test for freshmen, Sections 1-4, Room 3-410; 5-12, Room 3-440; 13-18, Room 3-460.

Monday, October 1

5:00—Freshman Mass Meeting, Room 5-330.
5:00—Dramashop Management Meeting, Room 2-178.

Tuesday, October 2

10:00—Lecture on Manipulation of Slide Rule, Room 10-250.
2:00—Lecture on Slide Rule, Room 10-250.
5:00—Tech Dance Orchestra Tryout, North Hall, Walker Memorial.
5:00—T. E. N. Smoker, West Lounge, Walker Memorial.

FACULTY MEMBERS CALL PUBLICATIONS VALUABLE

(Continued from Page 3)

life, and, second, that students favor publications as activities in which to participate. I am sure that many able students in the freshman class will be quick to perceive these salient features when they select their activities.

CHURCH OF THE COVENANT

Berkeley & Newbury Sts., Boston
Student Welcome Service
Sunday, Sept. 30, 10:45 A. M.
Student Reception, 8:30 p.m.
Rev. R. S. Clements, Ph.D., Minister

Professor Erwin H. Schell

There's no question but that such activities develop their faculty in expression and their ability to meet and deal with people, two factors upon

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which present-day employers lay considerable weight.

Professor Karl D. Fernstrom

In my time, men on THE TECH got "canned" about their Junior year. I am particularly amazed to note the high scholastic rating of this year's staff.

Although this contains specific reference to Technology's newspaper, the statement which follows can be given almost equal application to work on any of the Institute's publications.

Professor Edwin S. Burdell, '20

THE TECH as an organ of student opinion was a powerful factor in Institute life during the "War Years" 1916-1920. Students who worked on THE TECH at that time came in contact with men who made history in the world of science, engineering and business. These are equally stirring times and the Institute is actively participating now as then in the contemporary life of the nation. Students will do well to line up with THE TECH and avail themselves of the unusual opportunities that such an association affords.

On Tuesday, October 2, there will be two lectures on the Slide Rule, by Professor R. D. Douglass. These will be given at 10 A. M. and 2 P. M. in Room 10-250. All students interested are welcome to attend.

Undergraduate Notices

Freshmen who are able should attend the freshman mass meeting Monday at 5:00 P. M. in Room 5-330. Speakers during the meeting will be Coach Oscar Hedlund, Hoyt Steel, freshman football coach, Harry Essley, Field Day Manager, Walter Stockmayer, Senior Class President, and Michael Kuryla, Junior Class President. Field sports and Field Day rules will be discussed.

All men wishing to try out for the Tech Dance Orchestra will please report to John Graham or Larry Sharpe at 5:00 P. M., Tuesday, October 2, in North Hall, Walker Memorial. Those who qualify will be well paid for their time.

All freshmen interested in going out for cross-country or Freshman

Field Day Relay are requested to see Coach Oscar Hedlund at the Barbour Field House at the earliest possible date.

A meeting for freshmen interested in managerial positions on the Dramashop, Technology's dramatic organization, will be held next Monday in Room 2-178 at five o'clock. There are several positions open. Trials for the cast of Dramashop's fall production will be held next Wednesday in Room 2-178 at five o'clock.

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